



Real-Time PCR Gene Expression and Microarray transcriptome analysis training course

Obtain more in depth understanding of qPCR and microarray expression experiments

This analysis training workshop focuses on the real-time PCR (qPCR) and microarray gene expression analysis procedure including critical steps of qPCR gene expression workflow as well as primary and secondary microarray gene expression analysis. Learn about important considerations while planning gene expression studies. How to use qPCR for validation of microarrays as well as how to generate mRNA-miRNA interaction networks. Gain more knowledge about how to assess data quality, identify differentially expressed genes and alternative splicing events. We will be concentrating on efficient data analysis and use cost-free tools like Thermo Fisher Connect software (compatible with all Applied Biosystems™ real-time PCR systems) and Transcriptome Analysis Console (TAC) software to demonstrate essential analysis steps leading to final results.

Course participants will receive an insight into the appropriate experimental setup, quality assessment and analysis of gene expression results using cost-free Thermo Fisher Connect™ and Transcriptome Analysis Console (TAC) software.

services and support

Course content:

Our training team consisting of highly qualified staff members, who have well-founded experience in professional support for qPCR and microarrays, will employ a combination of theoretical discussion and software demonstrations to cover the following topics:

Microarray data analysis:

- Introduction to microarrays
- Microarrays or RNA-Sequencing
- Gene expression software features for microarray quality control
- Gene level analysis using Transcriptome Analysis Console (TAC) Software for significant gene expression results
- mRNA-miRNA interaction networks
- Alternative splicing analysis

qPCR data analysis:

- Introduction to qPCR
- gene expression workflow, up to result calculations, according to MIQE guidelines

- Different normalisation strategies
- Pre-amplification option – increase cDNA amount to multiply qPCR reactions
- Data analysis with Thermo Fisher Connect Software for significant gene expression results
- Gene expression software features for quality control and display of final results (e.g. box plots, p-value, volcano plot)

Who should attend?

The course is intended for existing users and potential new users of qPCR and microarrays for gene expression who want to obtain more in depth understanding on the gene expression analysis workflow for coding and non-coding RNA.

Each participant is required to pay a course fee of €208; or SFr* 275. This amount may be redeemed against everyday qPCR and MicroArray products after the training.*

Date:

Course language:

Time:

Venue:

For additional details, please contact:

To register for one of the limited training places, please visit:

<https://learn.thermofisher.com/europe/courses/view/id/382>

This promotion is available to attendees of the Real-Time PCR Gene Expression and Microarray transcriptome analysis training course in the following countries: Germany, Switzerland and Austria. The course fee can be redeemed against everyday Applied Biosystems qPCR or MicroArray products purchased on [thermofisher.com/geneexpression](https://www.thermofisher.com/geneexpression) or on [thermofisher.com/qpcr](https://www.thermofisher.com/qpcr) using a discount code provided at the training. Discount code must be used within 3 months from the date of the course and with a single order greater than €1000; or SFr 1300. Offer valid on orders received no later than 31 December 2019. Subject to country and dealer participation. Valid while supplies last. All offers subject to Thermo Fisher Scientific standard terms and conditions of sale. Cannot be combined with other discounts or promotions. Offer void where prohibited, licensed, or restricted by federal, state, provincial, or local laws or regulation or agency/institutional policy. Other restrictions may apply. Please note that the value of the specific offer(s) the customer may receive from the manufacturer under this program can be considered as a gift or an advantage, and as a result pursuant to applicable local law, it could give rise to declaration, notification, publication or reporting. The customer also warrants it will comply with any local law relating to transparency, as the case may be.

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